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Qun Wang; Ning Wu; Zhaoan Wang;

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83 Soft fault detection and isolation in analog circuits: some results and comparison between a fuzzy approach and radial basis function network

Catelani, M.; Fort, A.;

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2002

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1 Rule condition testing and action execution in Ariel

Eric N. Hanson

June 1992 ACM SIGMOD Record , Proceedings of the 1992 ACM SIGMOD international conference on Database Management Systems
Volume 21 Issue 2

Full text available: pdf(1.06 MB)

Additional Information: full citation, abstract, references,

This paper describes testing of rule conditions and execution of rule actions in Ariel, a rule engine that is tightly coupled with query and update processing. Ariel rules can have conditions and transitions. For testing rule conditions, Ariel makes use of a discriminative structure for testing single-relation selection conditions efficiently, and a modular approach to A-TREAT, ...

2 A predicate matching algorithm for database rule systems

Eric N. Hanson, Moez Chaabouni, Chang-Ho Kim, Yu-Wang Wang

May 1990 ACM SIGMOD Record , Proceedings of the 1990 ACM SIGMOD international conference on Database Management Systems
Volume 19 Issue 2

Full text available: pdf(1.08 MB)

Additional Information: full citation, abstract, references,

Forward-chaining rule systems must test each newly asserted fact against a set of rules that match the fact. Expert system rule engines use a simple combination of matching. We introduce an algorithm for finding the matching predicates that match the fact when the number of predicates is large. We focus on equality and inequality predicates. This algorithm is well ...

3 An algebraic approach to static analysis of active database rules

Elena Baralis, Jennifer Widom

September 2000

ACM Transactions on Database Systems (TODS), Volume 2

Full text available:  pdf(391.93 KB)

Additional Information: full citation, abstract, reference

Rules in active database systems can be very difficult to program due to the u rule processing. We provide static analysis techniques for predicting whether and whether rule execution is confluent (guaranteed to have a unique final st techniques for analyzing rules in active database systems. We improve consid providing analysis criter ...


Keywords: active database systems, confluence, database rule processing, da

4 Efficient tests for top-down termination of logical rules

Jeffrey D. Ullman, Allen Van Gelder

April 1988

Journal of the ACM (JACM), Volume 35 Issue 2

Full text available:  pdf(2.32 MB)

Additional Information: full citation, abstract, references, citin

Considered is the question of whether top-down (Prolog-like) evaluation of a terminate. The NAIL! system is designed to process programs consisting of lo of the program, the best from among many possible strategies for its evaluat essential that termination tests be fast. Thus, the “uniqueness” property is ...

5 Set-oriented constructs: from Rete rule bases to database systems

Douglas N. Gordin, Alexander J. Pasik

April 1991 ACM SIGMOD Record , Proceedings of the 1991 ACM SIGMOD internati
Volume 20 Issue 2

Full text available:  pdf(733.87 KB)

Additional Information: full citation, references, c

6 Discrimination network for rule condition matching in object-oriented databi

Moez Chaabouni, Soon M. Chung

February 1995

Proceedings of the 1995 ACM symposium on Applied computin

Full text available:  pdf(641.89 KB)


Additional Information: full citation, references, ind

Keywords: discrimination network, object-oriented database rule system, patt

7 Active rules in deductive databases

John V. Harrison

December 1993 Proceedings of the second international conference on Information

Full text available:  pdf(1.13 MB)

Additional Information: full citation, references, index

8 A practical approach to static analysis and execution of rules in active data

Seung-Kyum Kim, Sharma Chakravarthy

January 1997 Proceedings of the sixth international conference on Information and


Full text available:  pdf(1.20 MB)

Additional Information: full citation, references, index te

9 Column: Generating consistent test data: restricting the search space by a

Andrea Neufeld, Guido Moerkotte, Peter C. Lockemann

April 1993 The VLDB Journal — The International Journal on Very Large D

Full text available:  pdf(2.31 MB)

Additional Information: full citation, abstract, refer

To address the problem of generating test data for a set of general consistenc approach: First the interdependencies between consistency constraints are ex on their basis. During its creation, the user may exert control. In essence, the restrict the search for consistent test databases. In the second step, the test approaches are pr ...

Keywords: consistency, design, logic, test data, validation

10 Poster papers: Construct robust rule sets for classification

Jiuyong Li, Rodney Topor, Hong Shen

July 2002 Proceedings of the eighth ACM SIGKDD international conference on Kn

Full text available:  pdf(612.74 KB)

Additional Information: full citation, abstract, refer


We study the problem of computing classification rule sets from relational dat made on test data with missing attribute values. Traditional classifiers perform as the training data because they tailor a training database too much. We intr more robust than another, that is, able to make more accurate predictions on show that the opti ...

Keywords: association rule, classification rule, data mining

11 Efficient mining of association rules in text databases

John D. Holt, Soon M. Chung

November 1999 Proceedings of the eighth international conference on Informatio

Full text available:  pdf(1.09 MB)

Additional Information: full citation, abstract, referen

In this paper, we propose two new algorithms for mining association rules bet characteristics of text databases are quite different from those of retail transa algorithms cannot handle text databases efficiently because of the large num counted. Two well-known mining algorithms, Apriori algorithm and Direct Has evaluated in the context of min ...

12 Automating software analysis and testing using a program transformation s

G. Kotik, L. Markosian

November 1989 ACM SIGSOFT Software Engineering Notes , Proceedings of the AC Software testing, analysis, and verification, Volume 14 Issue 8

Full text available:  pdf(888.08 KB)


Additional Information: full citation, abstract, reference

We describe an approach to software analysis and test generation that combin databases and parsers for capturing and representing software; pattern langu querying and analyzing a database of software; and transformation rules for a on the analysis results, and for automatically creating program “mutan coverage of the test cases. We pre ...

13 Beyond market baskets: generalizing association rules to correlations

Sergey Brin, Rajeev Motwani, Craig Silverstein

June 1997 ACM SIGMOD Record , Proceedings of the 1997 ACM SIGMOD internati Volume 26 Issue 2

Full text available:  pdf(1.59 MB)

Additional Information: full citation, abstract, references,


One of the most well-studied problems in data mining is mining for associatio rules, whose significance is measured via support and confidence, are intende customer purchasing item A often also purchases item B.” Motivated b baskets and the association rules used with them, we develop the notion of m (generalizing associations ...

14 Space optimization in deductive databases

Divesh Srivastava, S. Sudarshan, Raghu Ramakrishnan, Jeffrey F. Naughton

December 1995

ACM Transactions on Database Systems (TODS), Volume 20

Full text available:  pdf(3.22 MB)

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In the bottom-up evaluation of logic programs and recursively defined views o usually assumed to be stored until the end of the evaluation. Discarding facts considerably improve the efficiency of the evaluation: the space needed to ev costs of maintaining and accessing indices, and the cost of eliminating duplica evaluation method that is sound, compl ...


Keywords: bottom-up query evaluation deductive database systems, discardin

15 On the Complexity of Testing Implications of Functional and Join Dependence

David Maier, Yehoshua Sagiv, Mihalis Yannakakis

October 1981

Journal of the ACM (JACM), Volume 28 Issue 4

Full text available:  pdf(1.08 MB)

Additional Information: full citation, references, citings, index terms

16 Index support for rule activation

David A. Brant, Daniel P. Miranker

June 1993 ACM SIGMOD Record , Proceedings of the 1993 ACM SIGMOD international conference on Database Management Systems
Volume 22 Issue 2

Full text available:  pdf(888.85 KB)

Additional Information: full citation, abstract, reference

Integrated rule and database systems are quickly moving from the research I However, the current generation of prototypes are designed to work with sma The problem of supporting large complex rule programs within database mana challenges. The basis for many of these challenges is providing support for ru the process of determining ...

17 Special issue on prototypes of deductive database systems: The aditi deductive database system

Jayen Vaghani, Kotagiri Ramamohanarao, David B. Kemp, Zoltan Somogyi, Pete

April 1994 The VLDB Journal — The International Journal on Very Large D

Full text available:  pdf(2.67 MB)

Additional Information: full citation, abstract, refer


Deductive databases generalize relational databases by providing support for is a deductive system based on the client-server model; it is inherently multi-on shared-memory multiprocessors. The back-end uses relational technology disk-based data and uses optimization algorithms especially developed for the involving recursion. The front ...

Keywords: implementation, logic, multi-user, parallelism, relational database

18 A statistical theory for quantitative association rules

Yonatan Aumann, Yehuda Lindell

August 1999 Proceedings of the fifth ACM SIGKDD international conference on Kno


Full text available:  pdf(1.22 MB)

Additional Information: full citation, references, citings,

19 Concepts and implementation of a rule-based process engine

Burkhard Peuschel, Wilhelm Schäfer

June 1992 Proceedings of the 14th international conference on Software engineer


Full text available:  pdf(1.77 MB)

Additional Information: full citation, references, citings, index terms

20 Polynomial-time program transformations in deductive databases

Yatin P. Saraiya

April 1990 Proceedings of the ninth ACM SIGACT-SIGMOD-SIGART symposium on

Full text available:  pdf(1.17 MB)

Additional Information: full citation, abstract, references,

We investigate the complexity of various optimization techniques for logic dat polynomial-time algorithms for restricted versions of common program transf relaxation of these restrictions leads to NP-hardness. To this end, we define t queries, and show that while the 2-containment problem is in P, the 3-contain

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- 21 Decidability and undecidability results for the termination problem of active
James Bailey, Guozhu Dong, Kotagiri Ramamohanarao
May 1998 Proceedings of the seventeenth ACM SIGACT-SIGMOD-SIGART sympos
Full text available: pdf(1.28 MB) Additional Information: full citation, references, citings

- 22 A framework for testing safety and effective computability of extended data
Ravi Krishnamurthy, Raghu Ramakrishnan, Oded Shmueli
June 1988 Proceedings of the 1988 ACM SIGMOD international conference on M
Full text available: pdf(1.32 MB) Additional Information: full citation, abstract, references,


This paper presents a methodology for testing a general logic program contain predicates for safety and effective computability. Safety is the property that t finite. A related issues is whether the evaluation strategy can effectively com consider these problems under the assumption that queries are evaluated usi

...

23 Universal relation systems: Functional dependencies on cyclic database sc

Kent Laver, Alberto O. Mendelzon, Marc H. Graham

May 1983 Proceedings of the 1983 ACM SIGMOD international conference on M

Full text available:  pdf(1.35 MB)


Additional Information: full citation, abstract, refere

We study how functional dependencies affect the cyclicity of a database schem functional dependencies make a cyclic database scheme behave like an acycli every pairwise-consistent database state that satisfies the fd's is join-consiste fd-acyclicity over a restricted class of database schemes. We then give a table case that leads to a ...

24 Coordinating rule-based software processes with ESP

Paolo Ciancarini

July 1993 ACM Transactions on Software Engineering and Methodology (TOSEM

Full text available:  pdf(1.71 MB)

Additional Information: full citation, abstract, references,


ESP is a language for modeling rule-based software processes that take place environment. It is based on PoliS, an abstract coordination model that relies o tuples a la Linda. PoliS extends Linda aiming at the specification and coordina (Extended Shared Prolog) combines the PoliS mechanisms to deal with concu logic-programming language ...

Keywords: concurrency, logic programming, multiuser programming environm process, software process modeling

25 Cactis: a self-adaptive, concurrent implementation of an object-oriented da

Scott E. Hudson, Roger King

September 1989 ACM Transactions on Database Systems (TODS), Volume 1

Full text available:  pdf(2.65 MB)


Additional Information: full citation, abstract, references, citing

Cactis is an object-oriented, multiuser DBMS developed at the University of C functionally-defined data and uses techniques based on attributed graphs to o functionally-defined data. The implementation is self-adaptive in that the phy algorithms dynamically change in order to reduce disk access. The system is are some number of computations that must be performed t ...

26 Implementation of logical query languages for databases

Jeffrey D. Ullman

September 1985 ACM Transactions on Database Systems (TODS), Volume 1

Full text available:  pdf(2.66 MB)

Additional Information: full citation, abstract, references, citin

We examine methods of implementing queries about relational databases in t in first-order logic as a collection of Horn clauses. Because queries may be de of query evaluation do not always work, and a variety of strategies have been queries. We express such query evaluation techniques as "capture rule and predicates. One ess ...

27 A framework for testing database applications

David Chays, Saikat Dan, Phyllis G. Frankl, Filippas I. Vokolos, Elaine J. Weber

August 2000 ACM SIGSOFT Software Engineering Notes , Proceedings of the Intern
and Analysis, Volume 25 Issue 5

Full text available:  pdf(557.89 KB)

Additional Information: full citation, abstract, reference


Database systems play an important role in nearly every modern organization focused on how to test them. This paper discusses issues arising in testing da to testing database applications. In testing such applications, the state of the operation plays an important role, along with the user's input and the system with meaningful dat ...

Keywords: database, software testing, test data

28 Static analysis techniques for predicting the behavior of active database rul

Alexander Aiken, Joseph M. Hellerstein, Jennifer Widom

March 1995 ACM Transactions on Database Systems (TODS), Volume 20 Iss

Full text available:  pdf(2.79 MB)

Additional Information: full citation, abstract, references, citing

This article gives methods for statically analyzing sets of active database rule guaranteed to terminate, (2) guaranteed to produce a unique final database s unique stream of observable actions. If the analysis determines that one of th isolates the rules responsible for the problem and determines criteria that, if analysis methods are presented ...

Keywords: active database systems, confluence, database rule processing, sta

29 Testing implications of data dependencies

David Maier, Alberto O. Mendelzon, Yehoshua Sagiv

December 1979 ACM Transactions on Database Systems (TODS), Volume 4

Full text available:  pdf(1.14 MB)

Additional Information: full citation, abstract, references,

Presented is a computation method—the chase—for testing imp data dependencies. The chase operates on tableaux similar to those of Aho, S previous tableau computation methods as special cases. By interpreting table templates for relations, it is possible to test implication of join dependencies (functional dependenc ...


Keywords: chase, data dependencies, functional dependencies, join dependen
databases, tableaux

30 QProber: A system for automatic classification of hidden-Web databases

Luis Gravano, Panagiotis G. Ipeirotis, Mehran Sahami

January 2003

ACM Transactions on Information Systems (TOIS), Volume 21

Full text available:  pdf(3.62 MB)

Additional Information: full citation, abstract, reference

The contents of many valuable Web-accessible databases are only available to search engines and are hence invisible to traditional Web "crawlers." Recently, commercial Web sites have started to organize Web-accessible databases into Yahoo!-like hierarchical classification schemes. QProber is a system that automates this classification process by using a small number of classifiers. QProber can use a variety of types of ...

Keywords: Database classification, Web databases, hidden Web

31 Probe, count, and classify: categorizing hidden web databases

Panagiotis G. Ipeirotis, Luis Gravano, Mehran Sahami

May 2001 ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international conference on Database Management
Volume 30 Issue 2

Full text available:  pdf(389.34 KB)

Additional Information: full citation, abstract, reference

The contents of many valuable web-accessible databases are only available to search engines and are hence invisible to traditional web "crawlers." Recently, commercial web sites have started to manually organize web-accessible databases into Yahoo!-like hierarchical classification schemes. Probe, count, and classify is a system that automates this classification process by using a small number of classifiers. Probe, count, and classify can use a variety of types of ...

32 On the decidability and axiomatization of query finiteness in deductive data

Michael Kifer

July 1998

Journal of the ACM (JACM), Volume 45 Issue 4

Full text available:  pdf(323.85 KB)

Additional Information: full citation, abstract, reference

A database query is finite if its result consists of a finite set of tuples. For queries, the problem of determining finiteness is, in general, undecidable. In this paper, we consider a stronger kind of finiteness, which applies to Horn queries whose function symbols are constrained to have finite relations with finiteness constraints (abbr., F ...

Keywords: axiomatization, computability, finite queries, finiteness constraints, query processing

33 A form-based approach for database analysis and design

Joobin Choobineh, Michael V. Mannino, Veronica P. Tseng

February 1992 Communications of the ACM, Volume 35 Issue 2

Full text available:  pdf(8.75 MB) Additional Information: full citation, references, index terms, review

Keywords: form processing, view definition, view integration

34 Discovery of multi-level rules and exceptions from a distributed database

Rónán Páircéir, Sally McClean, Bryan Scotney

August 2000 Proceedings of the sixth ACM SIGKDD international conference on Knowledge Discovery in Data Mining

Full text available:  pdf(132.32 KB) Additional Information: full citation, references, index terms, review

Keywords: aggregates, distributed databases, exception discovery, multi-level sufficient statistics

35 Safe query languages for constraint databases

Peter Z. Revesz

March 1998 ACM Transactions on Database Systems (TODS), Volume 23 Issue 1

Full text available:  pdf(295.75 KB) Additional Information: full citation, abstract, reference

In the database framework of Kanellakis et al. [1990] it was argued that constraint databases as input and give other constraint databases that use the output. This closed-form requirement has been difficult to realize in constraint negation symbol. This paper describes a general approach to restricting constraint subsets that contain only programs ...

36 Closures of database hypergraphs

Domenico Saccà

October 1985 Journal of the ACM (JACM), Volume 32 Issue 4


Full text available:  pdf(2.51 MB) Additional Information: full citation, abstract, references, citation

A hypergraph formalism is introduced to represent database schemata. In particular, a full join dependency and a set of functional dependencies, is represented both undirected and directed hyperedges. Undirected hyperedges correspond to the join dependencies and directed hyperedges correspond to the functional dependencies. In addition, the

37 Rule based database access control—a practical approach

Tor Didriksen

November 1997 Proceedings of the second ACM workshop on Role-based access co


Full text available:  pdf(1.01 MB)

Additional Information: full citation, references, index terms

38 Rule-based optimization and query processing in an extensible geometric c

Ludger Becker, Ralf Hartmut Güting

June 1992 ACM Transactions on Database Systems (TODS), Volume 17 Issu

Full text available:  pdf(3.35 MB)

Additional Information: full citation, abstract, references, citin

Gral is an extensible database system, based on the formal concept of a man algebra is used to define any application's query language, its query executio this paper we describe Gral's optimization component. It provides (1) a sophi transformations of abstract algebra expressions, (2) a general optimization fra optimization algorithms can be ...

Keywords: extensibility, geometric query processing, many-sorted algebra, op optimization

39 Answering queries on embedded-complete database schemes

Edward P. F. Chan, Alberto O. Mendelzon

April 1987 Journal of the ACM (JACM), Volume 34 Issue 2

Full text available:  pdf(2.22 MB)

Additional Information: full citation, abstract, references, citin

It has been observed that, for some database schemes, users may have diffic for simple queries. The problem occurs when some implicit “piece&rdqu of a relation scheme, is not explicitly represented in the database state. In th how the state and the constraints interact before they can retrieve the inform not ...

40 Measuring system normality

Mark Burgess, Hårek Haugerud, Sigmund Straumsnes, Trond Reitan

May 2002 ACM Transactions on Computer Systems (TOCS), Volume 20 Issu

Full text available:  pdf(794.43 KB)

Additional Information: full citation, abstract, refere

A comparative analysis of transaction time-series is made, for light to modera problem of anomaly detection in computers. Criteria for measuring the statist a scaling transformation to the measured data, it is found that the distribution approximated by a steady-state, maximum-entropy distribution, modulated b distribution, under these con ...

Keywords: Anomaly detection, statistical mechanics

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41 Special issue on prototypes of deductive database systems: The glue-nail (implementation, and evaluation

Marcia A. Derr, Shinichi Morishita, Geoffrey Phipps

April 1994 The VLDB Journal — The International Journal on Very Large D


Full text available: pdf(2.16 MB)

Additional Information: full citation, abstract,

We describe the design and implementation of the Glue-Nail deductive databa query language; Glue is a procedural language used for non-query activities. to write a complete application. Nail and Glue code are both compiled into the uses variants of the magic sets algorithm and supports well-founded models. peephole techniques and data ...

Keywords: language, performance, query optimization

- 42 Exploratory mining and pruning optimizations of constrained associations r**
Raymond T. Ng, Laks V. S. Lakshmanan, Jiawei Han, Alex Pang
June 1998 ACM SIGMOD Record , Proceedings of the 1998 ACM SIGMOD internati
Volume 27 Issue 2

Full text available:  pdf(1.65 MB)

Additional Information: full citation, abstract, references,

From the standpoint of supporting human-centered discovery of knowledge, t
rules suffers from the following serious shortcomings: (i) lack of user explora
rigid notion of relationships. In effect, this model functions as a black-box, ad
We propose, in this paper, an architecture that opens up the black-box, and s
explorat ...


- 43 Fuzzy functional dependencies and lossless join decomposition of fuzzy rel**
K. V. S. V. N. Raju, Arun K. Majumdar
June 1988 ACM Transactions on Database Systems (TODS), Volume 13 Issu

Full text available:  pdf(3.05 MB)

Additional Information: full citation, abstract, references, citin

This paper deals with the application of fuzzy logic in a relational database en
more meaning of the data. It is shown that with suitable interpretations for th
relational data model can be used to represent ambiguities in data values as
among them. Relational operators for fuzzy relations have been studied, and
integrity constraint ...

- 44 Automatic verification of database transaction safety**
Tim Sheard, David Stemple
September 1989 ACM Transactions on Database Systems (TODS), Volume 1

Full text available:  pdf(3.34 MB)

Additional Information: full citation, abstract, references, citin

Maintaining the integrity of databases is one of the promises of database man
that integrity constraints are invariants of database transactions. This is very
presence of complex constraints and large amounts of data. One way to minim
maintain database integrity over transaction processing is to prove at compile
atomically, disobey i ...

**45 Extending performance approaches to new application domains: An optimi:
configuration**

David Bartholomew Stewart, Efstathios Papaefstathiou, Jonathan Hardwick

July 2002 Proceedings of the third international workshop on Software and per

Full text available:  pdf(220.16 KB)

Additional Information: full citation, abstrac


A common problem that sales consultants face in the field is the selection of a configuration for web farms. Over-provisioning means that the tender will be lead to a configuration that does not meet the customer criteria. Indy is a per allows developers to create custom modeling applications. We have construct web farm workloads and topologies. T ...

Keywords: design, experimentation, indy, infrastructures, measurement, mod simulation

46 A methodology for creating user views in database design

Veda C. Storey, Robert C. Goldstein

September 1988 ACM Transactions on Database Systems (TODS), Volume 1

Full text available:  pdf(2.41 MB)

Additional Information: full citation, abstract, references, citin

The View Creation System (VCS) is an expert system that engages a user in a requirements for some application, develops an Entity-Relationship model for converts the E-R model to a set of Fourth Normal Form relations. This paper d is, it presents a formal methodology, capable of mechanization as a computer a user, identifying and resolving incons ...

**47 Optimization of a cycle time and utilization in semiconductor test manufact
near-real-time scheduling system**

Appa Iyer Sivakumar

December 1999 Proceedings of the 31st conference on Winter simulation: Simulati

Full text available:  pdf(142.30 KB)


Additional Information: full citation, abstract, references,

48 Process synchronization in database systems

Gunter Schlageter

September 1978

ACM Transactions on Database Systems (TODS), Volume

Full text available:  pdf(1.87 MB)

Additional Information: full citation, abstract, references,

The problem of process synchronization in database systems is analyzed in a abstract level; the abstraction is chosen such that the essential characteristic and investigated. Using a small set of concepts, a consistent description of th used, but only vaguely defined, notions are defined exactly within this framew problem immediately leads ...


Keywords: database consistency, database systems, integrity, locking, paralle

49 Heraclitus: elevating deltas to be first-class citizens in a database program

Shahram Ghandeharizadeh, Richard Hull, Dean Jacobs

September 1996

ACM Transactions on Database Systems (TODS), Volume 2

Full text available:  pdf(3.76 MB)

Additional Information: full citation, abstract, references, citin

Traditional database systems provide a user with the ability to query and man current database state. However, in several emerging applications, the ability scenarios in order to reason about the impact of an update (before committin Example applications include hypothetical database access, active database m management, to name a few. The central th ...

Keywords: active databases, deltas, execution model for rule application, hyp state

50 An integrated general purpose automated test environment

Peter A. Vogel

July 1993 ACM SIGSOFT Software Engineering Notes , Proceedings of the 1993 in and analysis, Volume 18 Issue 3

Full text available:  pdf(693.91 KB)


Additional Information: full citation, abstract, reference

As software systems become more and more complex, both the complexity of maintaining the results of that effort increase proportionately. Most existing t flexibility needed to adequately test significant software systems. The CONVE discussed as an answer to the need for a more complete and powerful genera

51 A unified version model for configuration management

Andreas Zeller

October 1995 ACM SIGSOFT Software Engineering Notes , Proceedings of the 3rd A
of software engineering, Volume 20 Issue 4

Full text available:  pdf(1.02 MB)

Additional Information: full citation, references, citin

52 A Theory of Safe Locking Policies in Database Systems

Mihalis Yannakakis


July 1982 Journal of the ACM (JACM), Volume 29 Issue 3

Full text available:  pdf(1.33 MB) Additional Information: full citation, references, citings, index terms

53 Mining association rules between sets of items in large databases

Rakesh Agrawal, Tomasz Imieliński, Arun Swami

June 1993 ACM SIGMOD Record , Proceedings of the 1993 ACM SIGMOD internati
Volume 22 Issue 2

Full text available:  pdf(1.08 MB)


Additional Information: full citation, abstract, references,

We are given a large database of customer transactions. Each transaction con
visit. We present an efficient algorithm that generates all significant associati
The algorithm incorporates buffer management and novel estimation and pru
applying this algorithm to sales data obtained from a large retailing company
algorithm.

54 Integrating association rule mining with relational database systems: altern.

Sunita Sarawagi, Shiby Thomas, Rakesh Agrawal

June 1998 ACM SIGMOD Record , Proceedings of the 1998 ACM SIGMOD internati
Volume 27 Issue 2

Full text available:  pdf(2.03 MB)

Additional Information: full citation, abstract, references,

Data mining on large data warehouses is becoming increasingly important. In
spectrum of architectural alternatives for coupling mining with database syste
loose-coupling through a SQL cursor interface; encapsulation of a mining algo
data to a file system on-the-fly and mining; tight-coupling using primarily use
implementations for processing in the DBMS. We ...

55 Maintaining state constraints in relational databases: a proof theoretic basis

William W. McCune, Lawrence J. Henschen

January 1989

Journal of the ACM (JACM), Volume 36 Issue 1

Full text available:  pdf(1.79 MB)

Additional Information: full citation, abstract, references, citin


If a relational database is required to satisfy a set of integrity constraints, the ensure that it continues to satisfy the constraints. It is desirable not to have t update. A method is described that takes a constraint C and a class of update class cannot violate C, or produces a formula C' (a complete test) that is satis

56 Semantics of query languages for network databases

Kazimierz Subieta

September 1985

ACM Transactions on Database Systems (TODS), Volume 1

Full text available:  pdf(3.71 MB)

Additional Information: full citation, abstract, referenc

Semantics determines the meaning of language constructs; hence it says muc implementing the language. The main purpose of this paper is a formal prese constructs employed in many database languages (sublanguages). Therefore, Selection Language) and J (Joins) are introduced, wherein most of the typical are collected. The semantics of SSL and J are ...

57 A design rule database system to support technology-adaptable applicatio

J. S. Aude, Hillary J. Kahn

July 1986

Proceedings of the 23rd ACM/IEEE conference on Design automatio

Full text available:  pdf(722.49 KB)

Additional Information: full citation, abstract, references

This paper describes aspects of a CAD system which has been specifically des applications and to incorporate expert system processes where appropriate. T use design rules stored in a database to supply technology related information supported in the database are concerned with different aspects of design, suc rules are described i ...

58 On the Desirability of Acyclic Database Schemes

Catriel Beeri, Ronald Fagin, David Maier, Mihalis Yannakakis

July 1983

Journal of the ACM (JACM), Volume 30 Issue 3

Full text available:  pdf(2.10 MB) Additional Information: full citation, references, citings, index terms

59 Design issues in a Rule-Based System

Stephen Fickas

June 1985 Proceedings of the ACM SIGPLAN 85 symposium on Language issues in
18 Issue 7 , 6

Full text available:  pdf(733.76 KB)


Additional Information: full citation, abstract, refer

This paper discusses a language and associated environment for building rule environment are encapsulated in a system we call ORBS (Oregon Rule Based focus will be on the interplay between language and environment design. How include design constraints placed by our program development model1 as we rationalization o ...

60 A database interface for file update

Serge Abiteboul, Sophie Cluet, Tova Milo

May 1995 ACM SIGMOD Record , Proceedings of the 1995 ACM SIGMOD internatio
Volume 24 Issue 2

Full text available:  pdf(1.07 MB)

Additional Information: full citation, abstract, references,

Database systems are concerned with structured data. Unfortunately, data is manner (e.g., in files) even when it does have a strong internal structure (e.g previous paper [2], we focussed on the use of high-level query languages to a optimization techniques to do so. In this paper, we consider how structured d database update languages. ...

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